

CONFIDENTIAL

29 Pesenber 195k

HEMORANDUM FOR: THE REFORD	
SUBJECT : Project Hemiter et en Projecte P-608, P-102, P-103, P-109, P-93, P-1394, and P-155	25X1 25X1
1. Time and Place of Montings The meeting was held 15 - 17 December 1954 at	25X1 25X1
2. Attendance; All projects P-109, P-139A, P-93 P-608 P-93, P-109 P-93 P-608 P-102, P-103 All except P-155 P-102, P-103	25X1
The purpose of this meeting was to review performance on all projects during the past & month period and to make necessary recommendations for future work. a. P-608 Hight Landing System, Ultraviolet	
hand-cerried to then exemined the authorization was found to extend the task to 30 September 195k. This date was changed by	25X1 25X1
It was agreed that would do no work on the mebile	25X1

CONFIDENTIAL

rer source (ultreviolet floodlight) so they wrote a request to cancel that phase of the task and with the request for concollection they requested additional funds which they estimate should be everly sufficient to complete the work on the auto-



Work on the entopollimators is scheduled to resonance immediately and be completed about 30 March 1955.

b. P-102,103 Transducers and Actuators, Indexing & Cataloging

The work during the past two nonths has been mainly concerned with setting up a system for the efficient production of the file eards. The most skilled personnel proved to be the most economical for the analysis of the commercial data shoots and tabulation on work shoots. They found that engineers could tabulate the information for about 7 eards per sen per hour. The coding of the eards could be performed at the rate of 15 eards per man per hour. Typing 5 copies of each card was performed at the mto of 5 cards per girl per hour. The index will contain between 5,000 and 10,000 cards. The graduction will be limited by the number of men that can be assigned to the tabulation. It appears now that no more than three engineers can be assigned to the tabulation work, so the time required to produce 5,000 cards will be 3 months assuming each engineer works helf time tabulating (3 to & hours per day is a meximum for this type of work). ____was imstructed to complete as much of the index as pensible and deliver it by the termination date of the contract (19 March 1955). The index to be delivered at that time can therefore be expected to contain less than 5,000 cards.

next years work by 19 February 1955. Included in next year's will be a list of instrument names with definitions.

is now producing five espice of the index, one of

which they will retain. These espice will be typed. If at a future date, additional espice are required, they will be produced by Multilith with a Keregraph master if the quantity permits.

indices. requested shipping instructions for the completed

c. F-109 Contact Kierophone

The present status of the project was discussed. Presently, does not present a microphone or sudio accelerameter Gasign which is equal to the one supplied by APD. Work is continuing on the various types of crystal units with various neceleatings in an attempt to improve sensitivity. Since the project accitor of August 1954, has not been paymitted to make any response characteristic measurements on walls.

CONFIDENTIAL

Commequently,

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THE PARTY

Declassified in Part - Sanitized Copy Approved for Release 2012/01/03 : CIA-RDP78-03300A001600040008-1



Consequently, the present efforts are directed teneral developing an assolutementar with an essentially flat response 300 - 3000 ope similar to that of the APD furnished sample. The best experimental unit has approximately 1/2 the sensitivity of the sample in the 300 - 3000 ope range.

There is some doubt whether building a misrophene with a flat response is the best way in this application. Pro-emphasis to avoid naise and to make up for signal absorption may be desirable. A response designed to do these things can only be derived from a study of walls, their transmission and noise characteristics.

the remaining 3-1/2 ments of the project.

- (1) Centime the investigation of acceleranter mechanisms with an increased emphasis on electromechanism law impedance (30 50.0) devices. This investigation should concern itself with the consitivity of the actual crystal or electromechanical transducer involved and not with the microphone or acceleranter as a whole.
- (2) Write a final report on all work previously dens. Emphasis should be placed on the results of the investigation of accelerometer mechanisms in the 10-1 to 10-4 g range which has been recently expanded to include low impedance dynamic type units in (1) above. Emphasis should also be placed on what is known regarding well noise and transmission characteristics and transducer-to-well mounting techniques.
- (3) Write and include with the final report a proposed course of action for future work to be done under a new task on the construction of a contact microphone. The whole problem should be legisally considered from the sound source to the wall and its characteristics, to the neutring problem and the transferor itself. A proposal should be included.

4. 0-93 Communication System, YLF, Ground Waves

The work done during the last two north period on noise characteristics above 2 he was discussed. It was recommended by APP that further noise studies and examination of the transfer function be continued in the range 2 he to d.c. It was pointed out that a maximum "chirp" noise level was known to exist in the range 1500 - 2500 ope-

In order

CONFIDENTIAL

25X1

25X1

SAMET CONFIDENTIAL!

In order to earry out the noise and transfer function necourements noted above, requested per- nissies to buy a Listen-Becker Medal LGA Amplifier (1965). APD granted permission verbally and will expedite authorisation by Contracto Branch.	25X ⁻
In order to learn more about the noise levels present at 2 be and below personnel expressed a desire to visit AFB agreed to set up a meeting for the week of 17 January. The personnel involved will be	25X 25X 25X 25X
was notified that it was desirable to ter- minate the study phase before the next monitor (15 February 155) so that a preliminary design conference might be held at that time. APD will provide a summary of desirable equipment char- acteristics for the conference.	25X′
e. P-1394 Chinese Telegraphic Deceder	
The contract terminated on 15 December 195k, the day we arrived. The report was completed but within the past ten days had found two additional methods which they considered so good that they should be included in the report. Only a preliminary investigation of these two methods had been made. wanted to know if we wanted to extend the task for appreximately one month to include these methods. We informed them that on the strength of our parallel project at the Bureau of Standards we did not want additional work done on this project. We, however, did approve a two week extension to edit and bind the report.	25X′ 25X′
f. P-155 Subministure Recorder Study	
has been handling this project himself. He is conducting the study along the more fundamental line as described in his original proposal, which we did not scoopt, rather than the "state of the ort" approach described in the	25X
does not feel that a study along the "state of the ort" approach would be worthwhile but he feels that a study besed on fundamental physical principles is so important that he is going to continue along those lines. He would like to either sameel the tack or change the tack to allow him to work along these lines. He is still willing to perform the work as membered but does not feel that make a membered but does not feel that a study along the feels that a study along that a study beautiful that he feels that a study beautiful that the feels that the fee	25X1

CONFIDENTIAL

THELL



CONFIDENTIA

25X1

Distributions

2rig. - P-608

1 - P-102

1 - P-103

1 - P-109

1 - P-155

1 - P-155

